

Title (en)
VARIABLE DISPLACEMENT VARIABLE PRESSURE VANE PUMP SYSTEM

Title (de)
VERSTELLFLÜGELPUMPENSYSTEM MIT GLEITDRUCK

Title (fr)
SYSTEME DE POMPE A PALETTES A CYLINDREE VARIABLE ET A PRESSION VARIABLE

Publication
EP 1979616 B1 20151223 (EN)

Application
EP 07719358 A 20070131

Priority
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• US 76372006 P 20060131

Abstract (en)
[origin: WO2007087704A1] A traditional variable displacement vane pump must be designed to provide maximum fluid pressure and thus experiences reduced energy efficiency when the system operating conditions do not necessitate such high requirements. A variable displacement variable pressure vane pump system is provided comprising a first control mechanism, which can be a control chamber (68) directly acting on the control slider (36) or a control chamber (68) and control cylinder (44) which acts on the control slider (36) and a second control mechanism which is a control chamber (72) and control cylinder (44) which acts on the control slider (36). A control valve (76), operated by an engine control unit or other suitable control mechanism, selectively provides pressurized lubrication oil to the second control mechanism to allow the output of the pump system to more closely match the requirements of the mechanical system.

IPC 8 full level
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CPC (source: EP KR US)
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WO 2007087704 A1 20070809; CA 2637454 A1 20070809; CA 2637454 C 20141223; CN 101379296 A 20090304; CN 101379296 B 20110518; EP 1979616 A1 20081015; EP 1979616 A4 20131218; EP 1979616 B1 20151223; KR 101320789 B1 20131023; KR 20080094902 A 20081027; US 2010221126 A1 20100902; US 2013251570 A1 20130926; US 8444395 B2 20130521

DOCDB simple family (application)
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